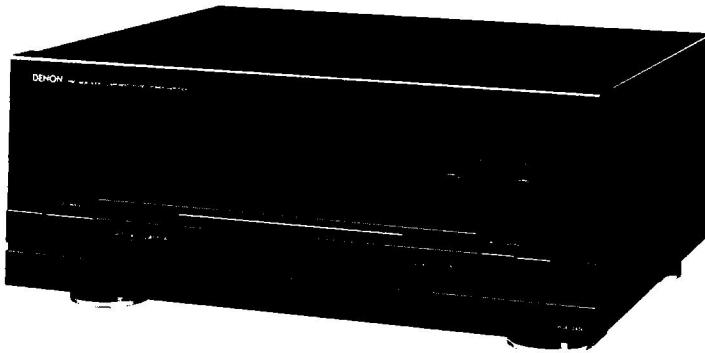


DENON

Hi-Fi Stereo Power Amplifier

SERVICE MANUAL MODEL POA-2400 SOLID STATE STEREO POWER AMPLIFIER



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NIPPON COLUMBIA CO., LTD.

SPECIFICATIONS

Rated output power: (both channels driven)	200W per channel min, RMS with both channels driven into 8 ohms from 20 Hz to 20 kHz with no more than 0.01% total harmonic distortion (U.S.A.) 200 W + 200 W (8 ohms, 20 Hz - 20 kHz) 330 W + 330 W (4 ohms, DIN 1 kHz)	S/N ratio: 123 dB (A-weighting)
Dynamic Power:	450 W + 450 W (at 4 ohms) 620 W + 620 W (at 2 ohms)	Output terminals speakers: • Europe, Australia and U.K. Models. • U.S.A., Canada and Multiple Models.
Total harmonic distortion:	Less than 0.002% (-3 dB at rated output, 8 ohms)	A or B: 4 - 16 ohms A + B: 8 - 16 ohms A or B: 6 - 16 ohms A + B: 12 - 16 ohms
Intermodulation distortion:	Less than 0.002% (80 Hz/7 kHz: 4/1 at rated output, 8 ohms)	General
Power band width:	5 Hz - 80 kHz (8 ohms, THD 0.03%)	Self diagnostic function: Display lights Power supply: Europe AC 220 V/50 Hz U.K. and Australia AC 240 V/50 Hz U.S.A. and Canada AC 120 V/60 Hz Asia AC 110/120/220/240 V 50/60 Hz (Multiple)
Frequency response:	1 Hz - 300 kHz ± 0 dB (at 1 W) (DIRECT) 1 Hz - 100 kHz ± 0 dB (at 1 W) (NORMAL) 1 Hz - 300 kHz ± 0 dB (at 1 W)	Power consumption: 7.5A (U.S.A. and Canada) 500 W (IEC) 350 W (Multiple)
Input sensitivity:	1V (NORMAL, DIRECT)	Dimensions: 434 mm (17-3/32") W x 187 mm (7-23/64") H x 429 mm (16-7/8) D (Including control knobs and feet)
Input impedance:	25k ohms (NORMAL in / DIRECT in)	Weight: 17.5 kg (38 lbs 10 oz)
• Europe, Australia and U.K. Models.	25k ohms (NORMAL in)	
• U.S.A., Canada and Multiple Models.	47k ohms (DIRECT in)	
Output impedance:	0.1 ohm (1 kHz)	

Design and specifications are subject to change without prior notice.

This Service Manual is prepared based on U.S.A. Black Version.

For United Kingdom model only.

WARNING:

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

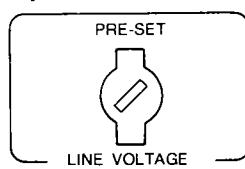
For U.S.A. and Canada models.

CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

● **LINE VOLTAGE (Voltage select switch) . . . For Multiple voltage model only.**

- * The desired voltage may be set with the VOLTAGE SELECTOR KNOB on the back panel using a screw driver.
- * Do not twist the VOLTAGE SELECTOR KNOB with excessive force. It may be damaged.
- * If the voltage select switch does not turn smoothly, see a qualified serviceman.



NAMES OF PARTS

• FRONT PANEL

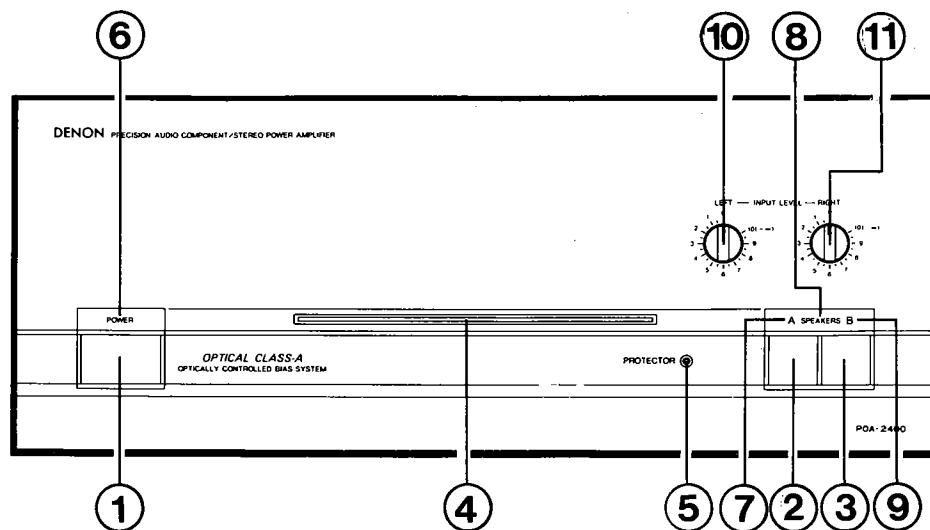


Fig. 1

(1) POWER (Power Switch)	(6) POWER (Power Indicator)
(2) SPEAKERS-A (Speaker Select Switch-A)	(7) "A" (Speaker "A" Indicator)
(3) SPEAKERS-B (Speaker Select Switch-B)	(8) SPEAKERS (Speaker Function Indicator)
(4) SELF-DIAGNOSIS (Self-diagnostic Result Indicator Lamps)	(9) "B" (Speaker "B" Indicator)
* (5) PROTECTOR (Protection Button)	(10) INPUT LEVEL (Lch Input Level Control)
	(11) INPUT LEVEL (Rch Input Level Control)

- The amplifier incorporates a speaker impedance protection circuit. If this circuit is triggered, it can be released by pressing this button.
- The speakers-A or speakers-B indicator may flash when using speakers with extremely low impedance ratings. If this happens, adjust the volume level until the indicators stop flashing and to obtain better sound quality.

• BACK PANEL

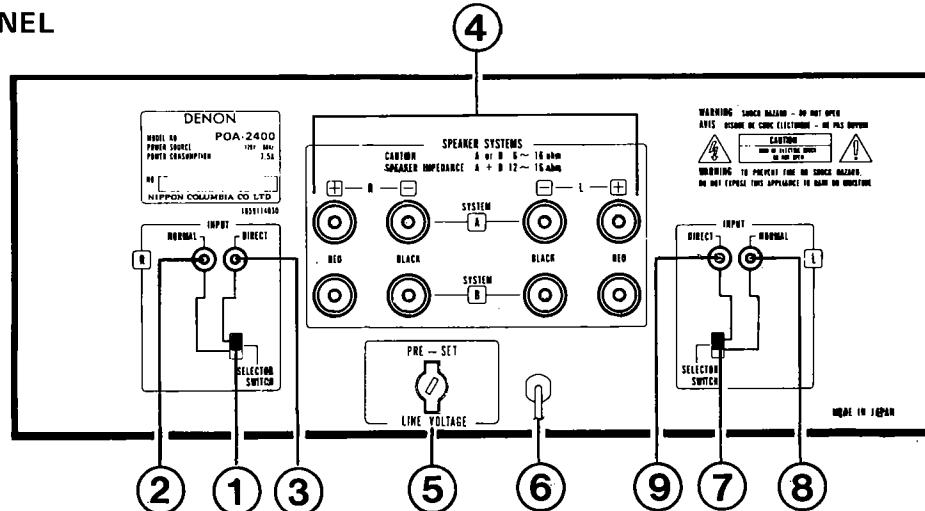


Fig. 2

(1) INPUT SELECTOR SW (Rch.)	(6) AC CORD (Power Cord)
(2) NORMAL (Rch. Normal Input Jack)	(7) INPUT SELECTOR SW (Lch.)
(3) DIRECT (Rch. Direct Input Jack)	(8) NORMAL (Lch. Normal Input Jack)
(4) SPEAKER SYSTEMS (Speaker Terminals)	(9) DIRECT (Lch. Direct Input Jack)
(5) LINE VOLTAGE (Line Voltage Selector) (Multiple Voltage Model only)	

CONNECTIONS

● Connection to the speaker system

Connect the speaker system for the left channel (the left side as viewed facing the front) to the L speaker terminal on the back panel, and the speaker system for the right channel into the R terminal. There are two sets of SPEAKERS terminals. If only one speaker system is to be used, connect it to the SYSTEM A terminals.

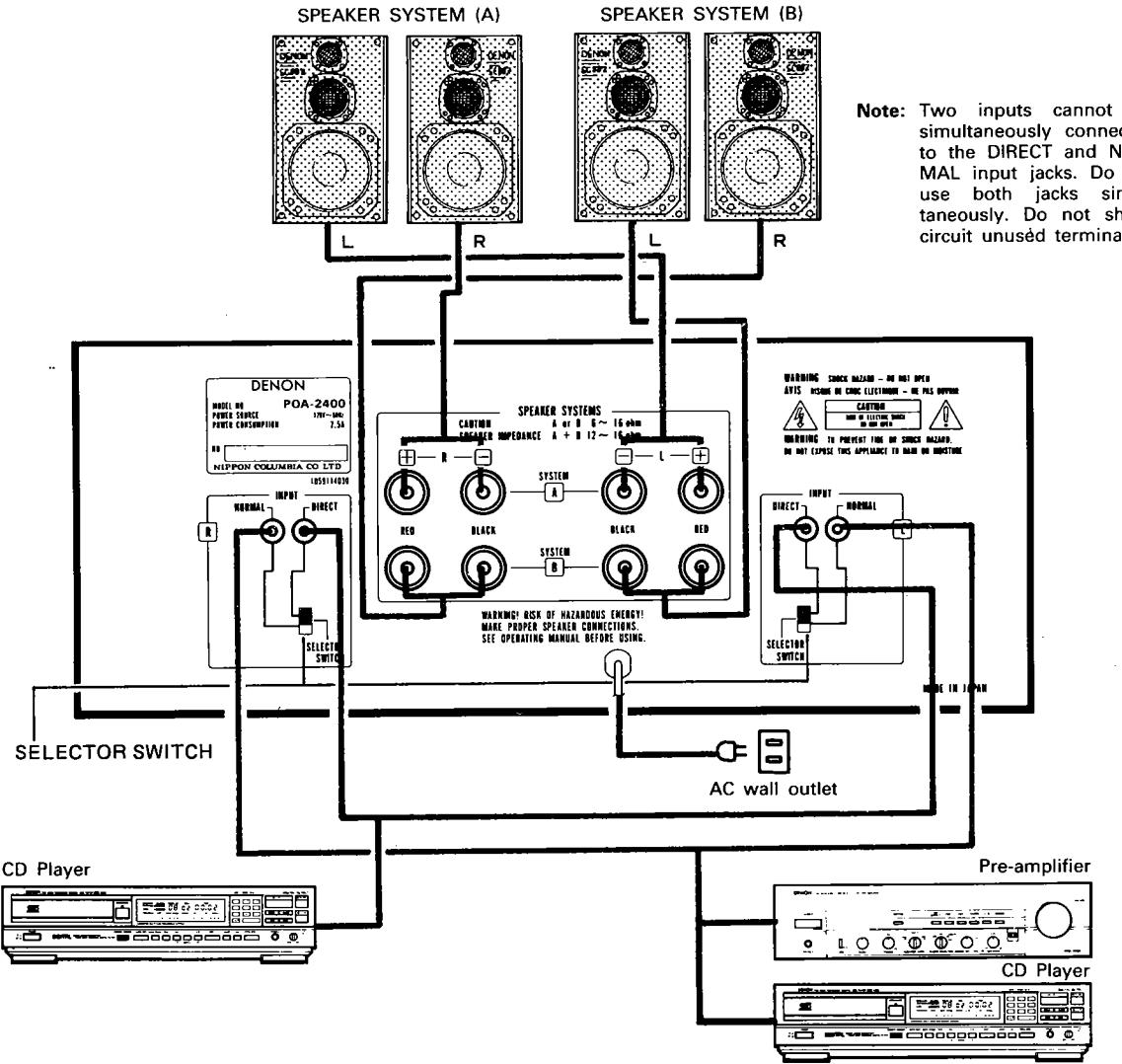


Fig. 3

CONNECTION PRECAUTIONS

- When making connections, make sure that the power is turned OFF.
- Make sure that the L output terminal of the preamplifier (or other audio equipment) is connected to the L input terminal of the POA-2400. Also check that the R output terminal of the preamplifier (or other audio equipment) is connected to the R input terminal of the POA-2400. Connect the cords going to the left speakers to the L terminals of the POA-2400 and the right speaker cords to the R terminals of the POA-2400.
- Make secure connections. If connections are not secure, noise or loss of sound output may occur.
- Do not bundle pin plug cords with the power cords: Please keep pin plug cords away from power supply transformers since hum or noise may occur.

For U.S.A., Canada and Asia model only.

With the DIRECT jacks the input level cannot be adjusted.
Before connecting the DIRECT jacks, either turn the speaker switch off or the power switch off.
Connect a component with an output level control to the DIRECT jacks.

For Europe model only.

Both the DIRECT and NORMAL terminals are feasible to adjust their input levels.
The NORMAL input is provided with a built-in filter to eliminate unwanted high frequency signals.

REMOVAL OF EACH SECTION

1. Top Cover

Remove 8 screws from the both sides, 4 screws from the rear side and detach the Top Cover in the direction arrow shows.

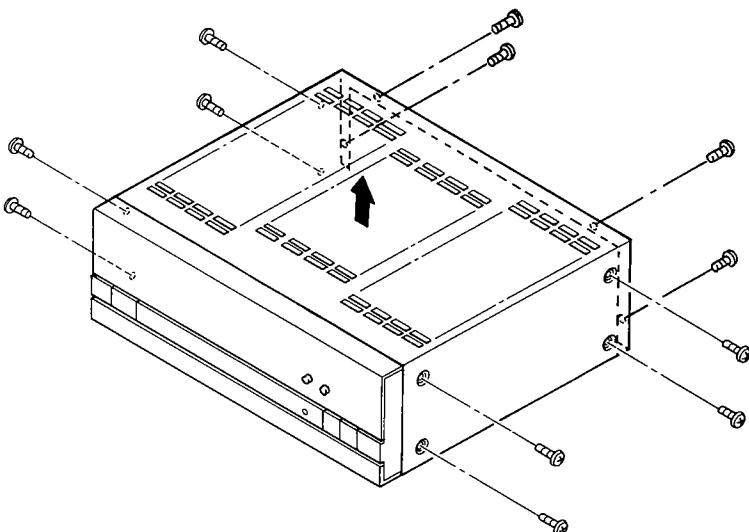


Fig. 4

2. Back Panel

Remove 8 screws from the bottom, 6 screws from the rear side, and take out the Back Panel in the direction arrow shows.

NOTE:

When remove Bottom Cover, do not take out the yellow screws.

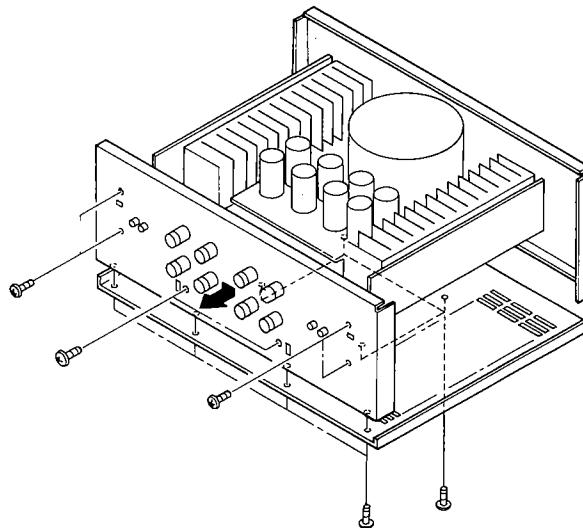


Fig. 5

3. Front Panel

Unfasten 4 screws from the bottom, 3 screws from the top, and dismantle the Front Panel.

Caution:

As illustration shows, please put a block underneath the unit and detach the Panel in a straight line to the unit. Never slant the panel nor to detach it with leaned line, this will prevent breaking of the power switch inside.

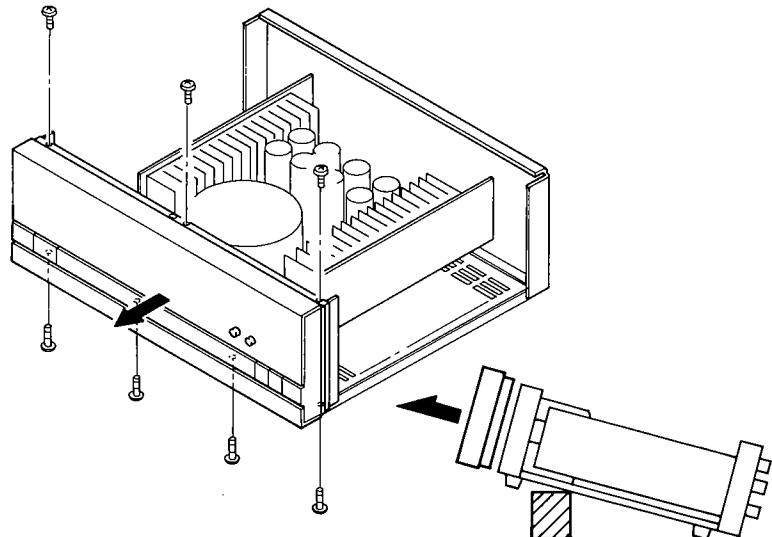


Fig. 6

METHOD OF ADJUSTMENTS

IDLE CURRENT ADJUSTMENT

- Setup

1. Keep the unit away from direct wind blown by an air-conditioner and an electric fan, and keep the unit under normal conditions. Adjust the range of ambient temperature to 15–30°C.
2. Set the following switches as follows:
 - POWER (Power switch) to off
 - INPUT LEVEL (level control) to 0 (↔)
 - SPEAKERS (Speaker terminal) to no load (Speakers disconnected)

- Adjustment

1. Connect DC Voltmeter to Test Points (T.P) of KU-9143.
2. Turn Power Switch "ON".
3. Adjust VR501 (L ch) and VR502 (R ch) so that the DC Voltmeter reads 3 ± 0.5 mV.
4. Then after 3 minutes warmup, readjust VR501 and VR502 so that the DC Voltmeter reads 5 ± 1 mV.
5. Connect V.T.V.M. to the Speaker Terminals.
6. Set the Oscillator frequency at 1 kHz, and Output Level at 100 mV, then connect with NORMAL Input Terminal.
7. Adjust the LEVEL Control turning clockwise to obtain the indication of the V.T.V.M. connected to the Speaker Terminal becomes 2 V.
8. Confirm that the DC Voltmeter connected to the T.P. becomes slightly greater value, then adjust the VR503 and VR504 to obtain 50 ± 5 mV on the meter.
9. After 10 minutes, readjust the VR503 and VR504 for 60 ± 5 mV.

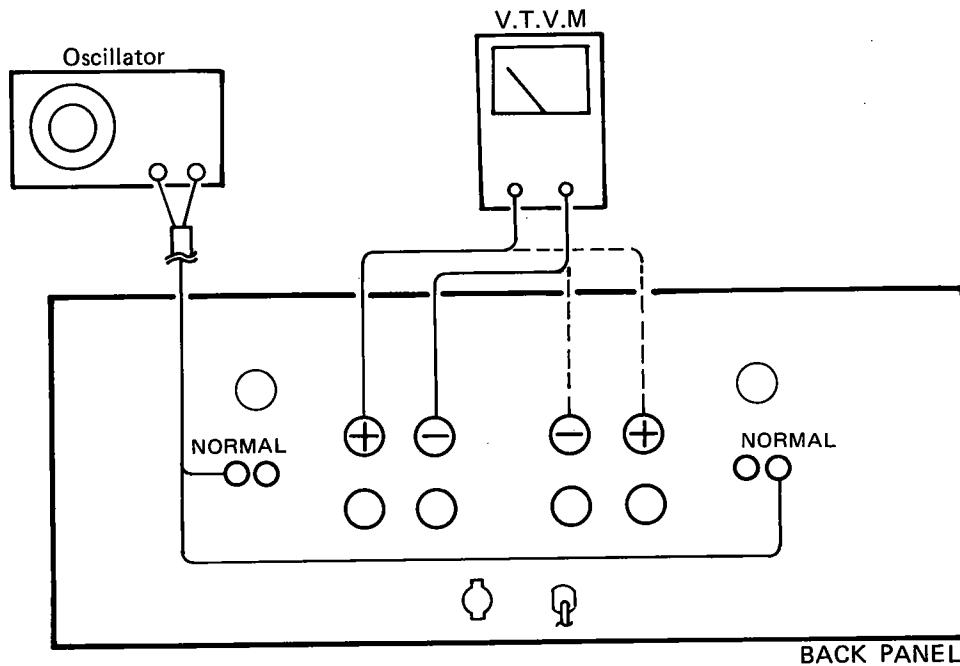


Fig. 7

ALIGNMENT POINTS
KU-9143 POWER UNIT (Component Side)

KU-9143 POWER

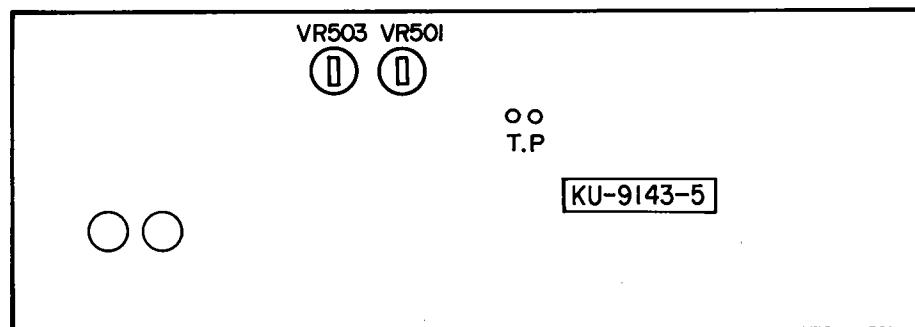
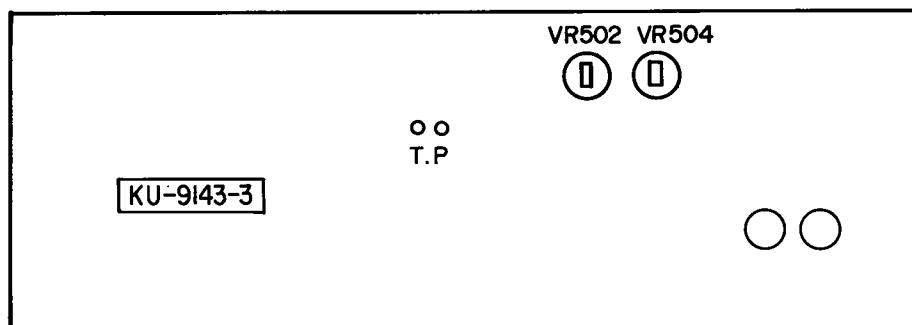


Fig. 8

TROUBLESHOOTING

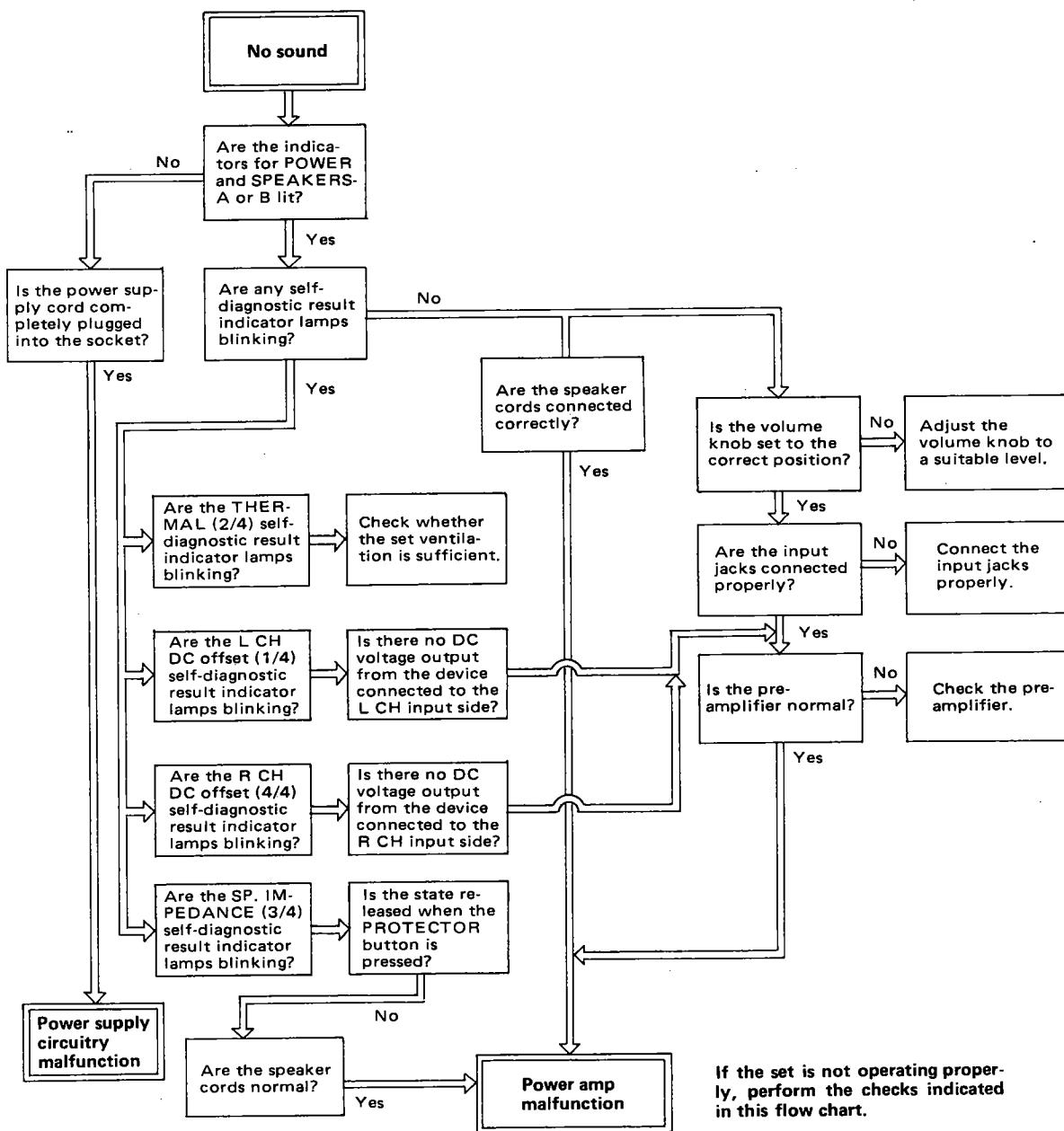
Before troubleshooting, be sure to check whether your audio system is really the source of the problem.

If you think the amplifier is out of order, first check the following one more time:

1. Are all the connections correctly made?
2. Is the set being operated properly in accordance with the Operating Manual?
3. Are the speakers and preamplifier being operated correctly?

If the set does not operate properly, perform the checks indicated in the flow chart below.

If none of the items listed apply to the difficulty, the amplifier is probably out of order. Turn off the power immediately, and contact the outlet where you purchased the amplifier or your nearest DENON dealer.



BLOCK LEVEL DIAGRAM

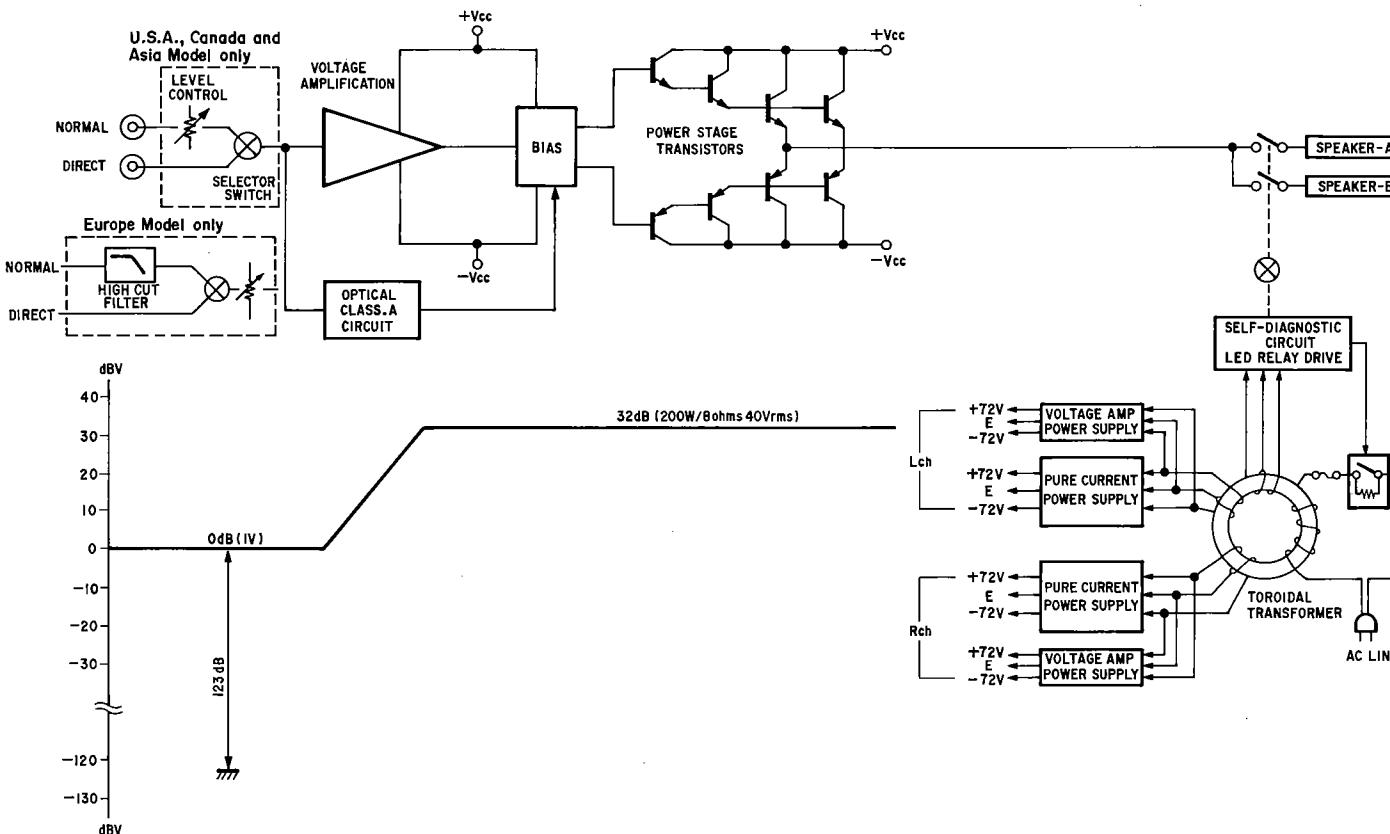


Fig. 9

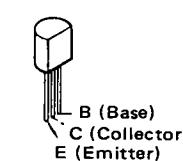
• TRANSISTOR (including FET)

2SC1815(Y)
2SC2878(A/B)
2SC1841(E/F)
2SA988(E/F)

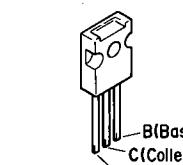
2SA1145(O/Y)
2SA1321
2SC2705(O/Y)
2SC3334

2SA968(Y)
2SC2238(Y)

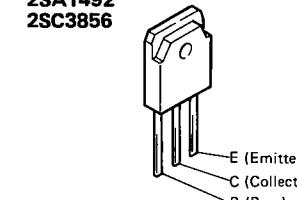
2SC2458(BL)
2SA1048(GR)



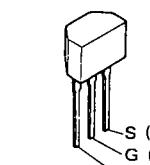
2SA1360 (O/Y)
2SC3423 (O/Y)



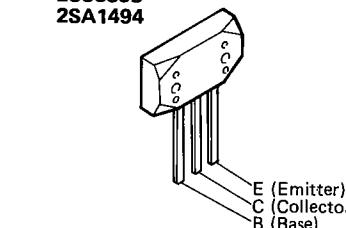
U.S.A., Canada and Asia Model
2SA1492
2SC3856



FET
2SK184C(Y/GR/BL)

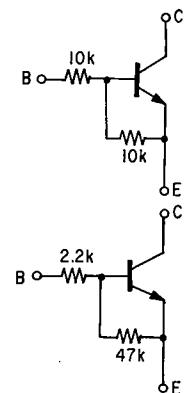


Europe Model only.
2SC3858
2SA1494



RN1202(10k-10k) NPN
RN1205(2.2k-47k) NPN
RN1205(2.2k-47k)

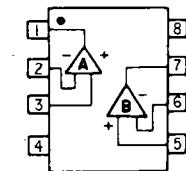
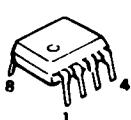
RN1202(10k-10k) NPN
RN1205(2.2k-47k) NPN
RN1205(2.2k-47k)



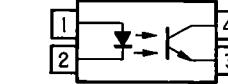
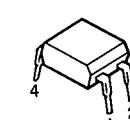
SEMICONDUCTORS

• IC's

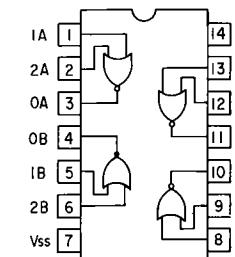
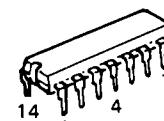
M5238P (Mitsubishi)



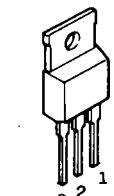
TLP521-1(BL)(Toshiba)



HD1400IBP (Hitachi)



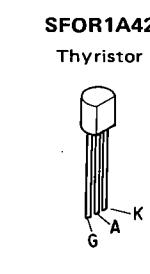
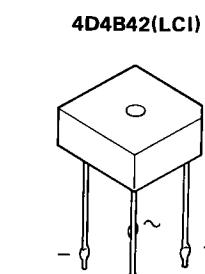
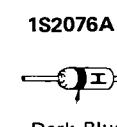
NJM78M15A(JRC)



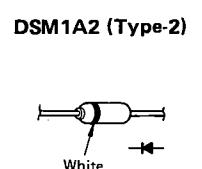
PIN CONFIGURATION
1. Output
2. Ground
3. Input

• DIODES (include LED's, Thyristor, Posistor)

HZ2C-1
HZ5C-1
HZ7B-3
HZ9B-2
HZ16-2
HZ12A-2
HZ30-2



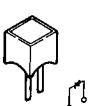
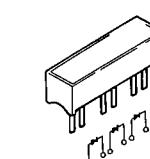
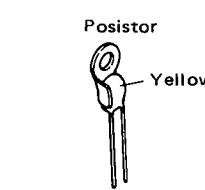
DSA1A2 (Type-3)
Color of Cathode Band, White



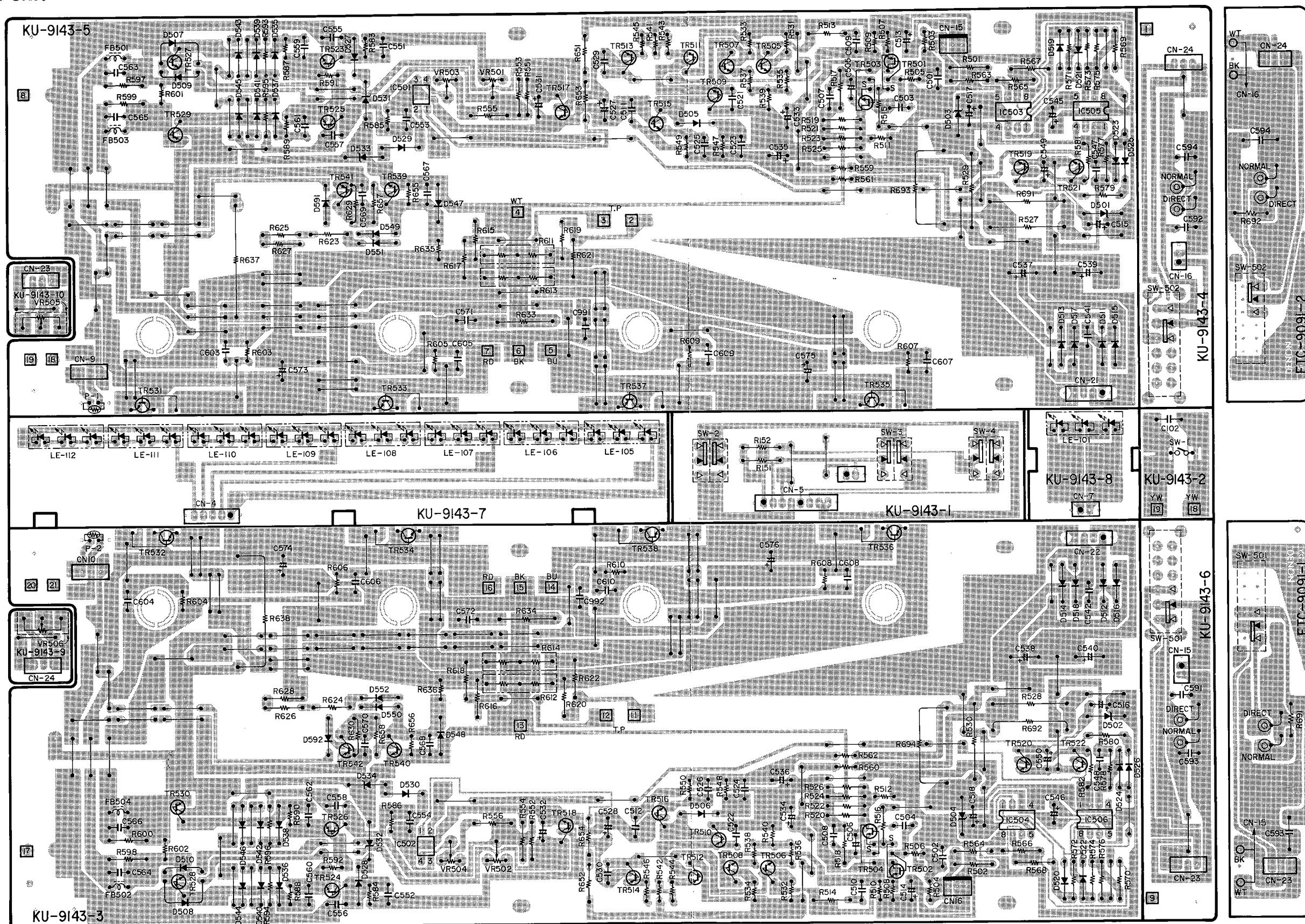
PTH487A01BD222TS

LD-701VR-L (RED)
LD-701YY(YELLOW)
LD-701DU(ORANGE)

LD-101DU (ORANGE)

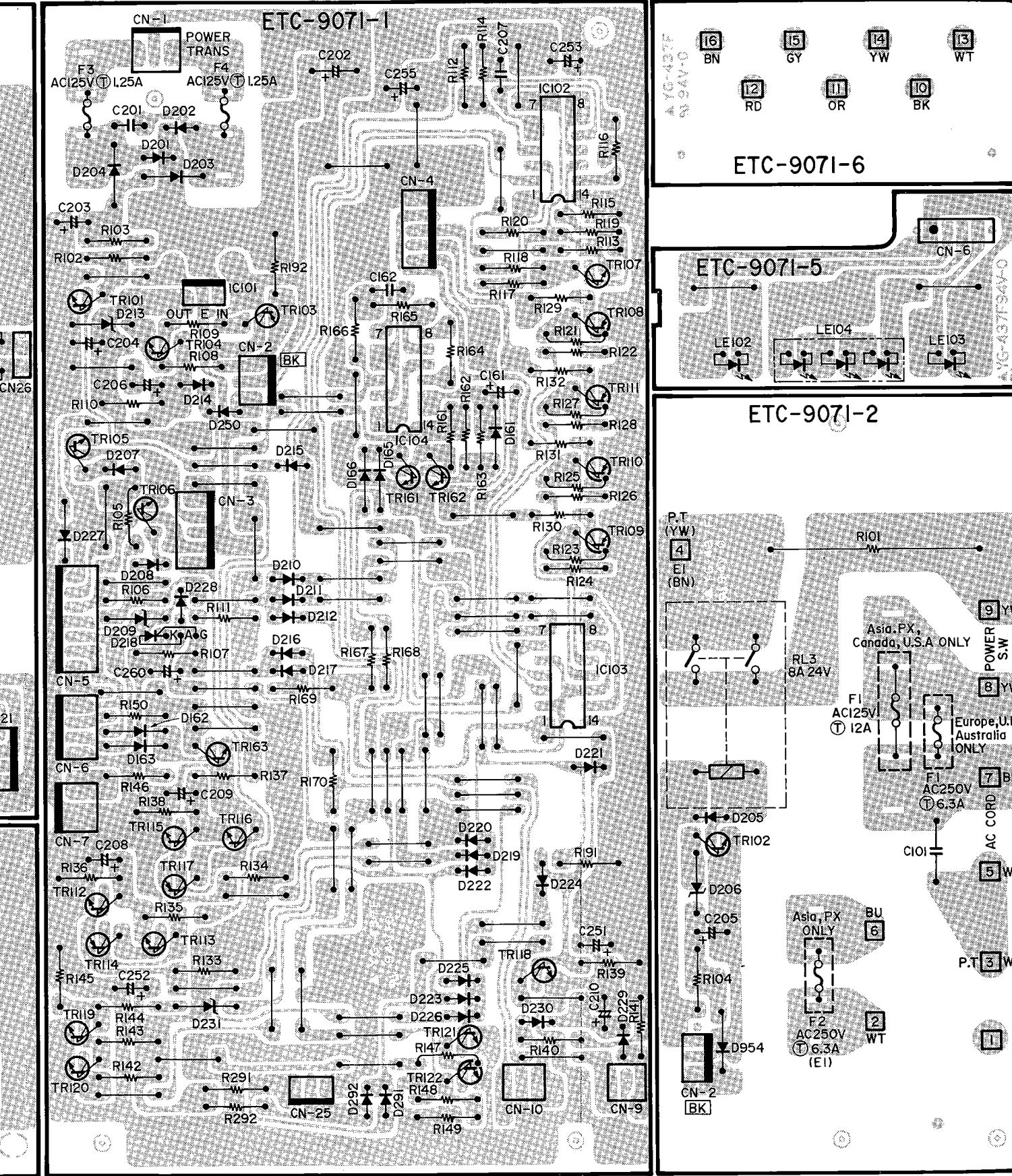
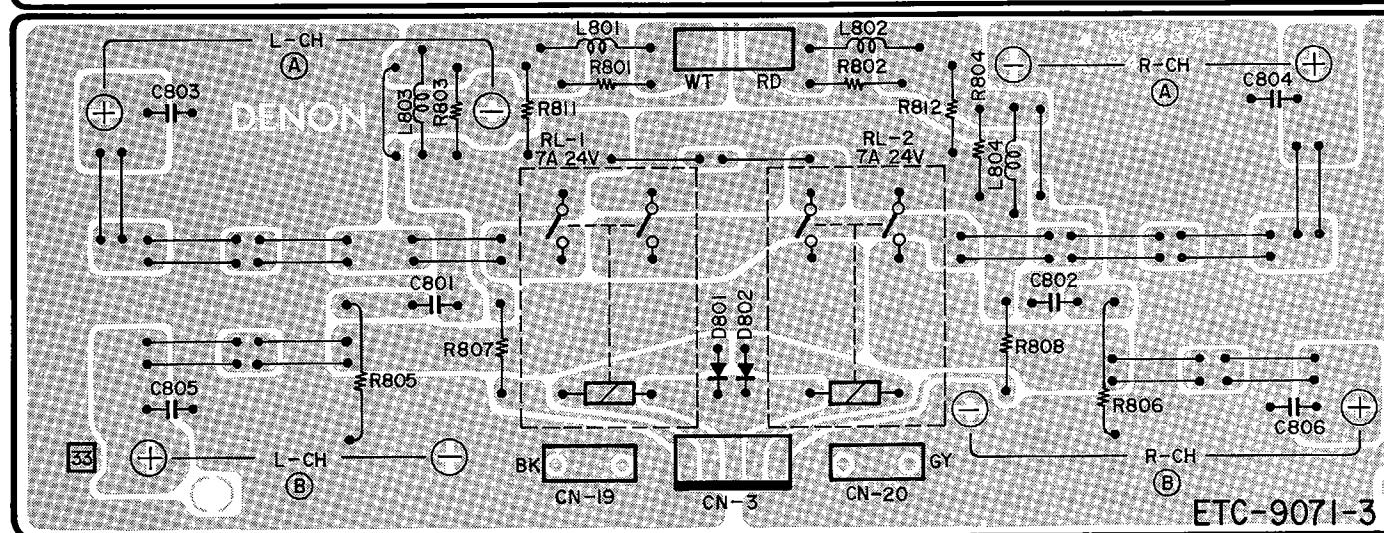
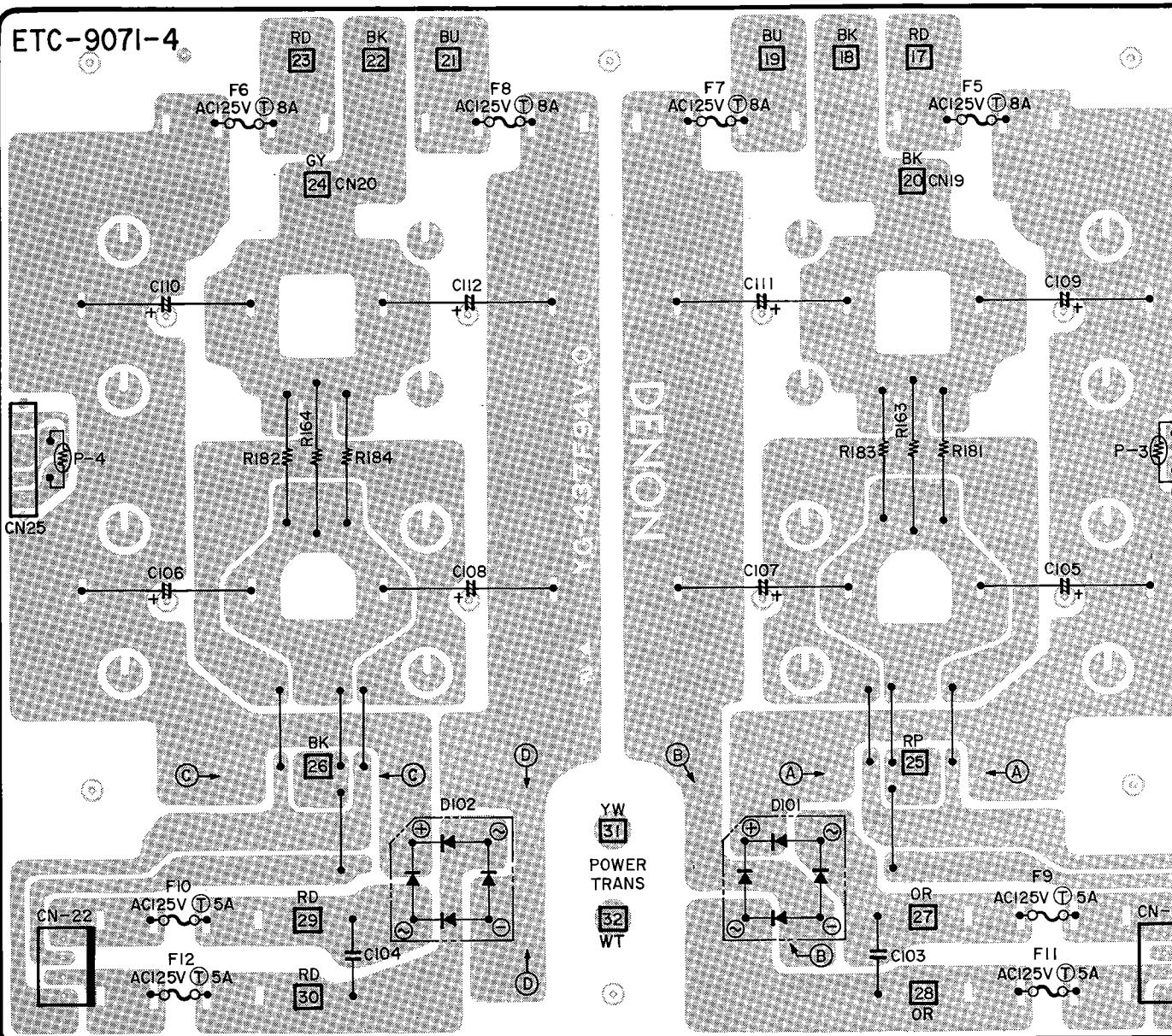


PRINTED WIRING BOARD PATTERNS
KU-9143 POWER UNIT



NOTE:
 KU-9143-4, -6 : U.S.A., Canada & Multiple Models
 ETC-9091-1, -2 : Europe, U.K. & Australia Models

ETC9071E SUPPLY UNIT



**PRINTED WIRING BOARD PARTS LIST
KU-9143 POWER UNIT PARTS LIST**

WARNING:
Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS			
IC501,502	2620874009	TLP521-1 (BL)	Photo Coupler
IC503~506	2620679000	M5238P	
TR501~504	2750055002	2SK184C(Y/GR/BL)	FET
TR505~508	2730281003	2SC2705 (O)/(Y)	
TR509,510	2710168007	2SA1145 (O)/(Y)	
TR511~514	2710202002	2SA1360 (O/Y)	
TR515,516	2730332004	2SC3334	
TR517,518	2730198002	2SC1815 (Y)	
TR519,520	2690067008	RN1205 (2.2k-47k)	
TR521,522	2730235020	2SC1841 (E/F)	
TR523,524	2730332004	2SC3334	
TR525,526	2710201003	2SA1321	
TR527,528	2730199001	2SC2238 (Y)	
TR529,530	2710104003	2SA968 (Y)	
TR539,540	2730332004	2SC3334	
TR541,542	2710131021	2SA988 (E/F)	
D501~504	2760256008	HZ16-2	Zener
D505~510	2760049011	1S2076A	
D511~518	2760433009	DSM1A2 (TYPE2)	
D519~530	2760049011	1S2076A	
D531~534	2760236031	HZ5C-1	Zener
D535~552	2760049011	1S2076A	
D591,592	2760049011	1S2076A	
LE101	3939319018	LD-701DU	Orange
LE105~110	3939319034	LD-701VR-L	Red
LE112,113	3939319034	LD-701VR-L	Red
P001,002	2760289004	PTH487A01BD222TS	Positive Thermistor

RESISTORS (not included Carbon Film ±5%, 1/4W type)

AR503,504	2412322044	RD14B2E102JNB	1kohm 1/4W ±5%
AR505,506	2412322031	RD14B2E101JNB	100ohm 1/4W ±5%
AR507~510	2412380963	RD14B2E222JNB	2.2kohm 1/4W ±5%
AR511,512	2412378920	RD14B2E221JNB	220ohm 1/4W ±5%
AR527~530	2440107024	RS14B3D562JNBF	5.6kohm 2W ±5%
AR531~534	2412378904	RD14B2E181JNB	180ohm 1/4W ±5%
AR535~538	2412376922	RD14B2E330JNB	33ohm 1/4W ±5%
AR539,540	2412379961	RD14B2E821JNB	820ohm 1/4W ±5%
AR541,542	2412377934	RD14B2E910JNB	91ohm 1/4W ±5%
AR543~546	2412387940	RD14B2E4R7JNB	4.7ohm 1/4W ±5%

Ref. No.	Part No.	Part Name	Remarks
CAPACITORS			
AC102	2538003014	CK45E2GAC472M	4700pF ±20% 400V AC (POWER SW)
C501~504	2554229940	CQ92P2A221J	220pF ±5% 100V
C505,506	2543056959	CE04D1H100MBP (SME)	10μF/50V
C507,508	2521086912	CM92C2A050D	5pF/100V ±0.5pF
C509,510	2551121025	CQ93M1H103J	0.01 μF/50V ±5%
C511,512	2521085926	CM92C2A680J	68pF/100V ±5%
C513~518	2544260087	CE04W1H100M (SME)	10μF/50V ±20%

Ref. No.	Part No.	Part Name	Remarks		
C521,522	2521086938	CM92C2A100D	10pF/100V ±0.5pF		
C523,524	2554229908	CQ92P2A101J	100pF/100V ±5%		
C525,526	2551249907	CQ93M1H471J (B)	470pF/50V ±5%		
C527,528	2544263084	CE04W2A100M (SME)	10μF/100V ±20%		
C529,530	2521086938	CM92C2A100D	10pF/100V ±0.5pF		
C531,532	2544260045	CE04W1H010M (SME)	1μF/50V ±20%		
C533~536	2543046008	CE04D2A010MBP	1μF/100V ±20%		
C537~540	2544229002	CE04W2A471M	470μF/100V ±20%		
C541,542	2531151905	CK45E2H472P	4700pF/500V +100 -0%		
C545,546	2544260087	CE04W1H100M (SME)	10μF/50V ±20%		
C547,548	2554213972	CQ93M1H103J (B)	0.01 μF/50V ±5%		
C549,550	2544299906	CE04W1C100M (SRE)	10μF/16V ±20%		
C551~554	2554229908	CQ92P2A101J	100pF/100V ±5%		
C555~558	2521085900	CM92C2A270J	27pF/100V ±5%		
C559~562	2554213927	CQ93M1H152J (B)	1500pF/50V ±5%		
C563~566	2561034092	CF93A1H154J	0.15 μF/50V ±5%		
C567~570	2554213972	CQ93M1H103J (B)	0.01 μF/50V ±5%		
C571,572	2554228967	CQ92P2A103J	0.01 μF/100V ±5%		
C573~576	2544263084	CE04W2A100M (SME)	10μF/100V ±20%		
SWITCHES & COIL					
SW501,502	2129534002	POWER SW (PUSH)			
SW501,502	2129536000	3P PUSH SWITCH			
	2124311107	SLIDE SWITCH			
OTHER PARTS				Q'ty	
FB501~504	2359006009	BL02RN1-R62		4	
	2050233032	3P EH CONNECTOR		6	
	2050243022	BASE		6	
	2050243048	2P WIRE HOLDER		2	
		4P WIRE HOLDER			

ETC9071E SUPPLY UNIT PARTS LIST

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS			
IC101	2680217004	NJM78M15A	
IC102~104	2620298009	HD14001BP	
TR101	2730253015	2SC2878 (A/B)	
TR102	2730317003	2SC2458 (BL)	
TR103	2710191003	2SA1048 (GR)	
TR104~107	2730317003	2SC2458 (BL)	
TR108~111	2710191003	2SA1048 (GR)	
TR112,113	2730317003	2SC2458 (BL)	
TR114	2710191003	2SA1048 (GR)	
TR115,116	2730317003	2SC2458 (BL)	
TR117	2710191003	2SA1048 (GR)	
TR118~122	2730317003	2SC2458 (BL)	
TR161	2690025008	RN1202 (10k-10k)	
TR162	2730317003	2SC2458 (BL)	
TR163	2690025008	RN1202 (10k-10k)	
D101,102	2760424005	4D4B42 (LC1)	
D161~163	2760049011	1S2076A	
D165,166	2760049011	1S2076A	
D201,202	2760427015	DSA1A2 (TYPE-3)	
D203,204	2760049011	1S2076A	
D205	2760432000	1SS270A	
D206	2760236031	HZ5C-1	
D207,208	2760432000	1SS270A	
D209	2760218033	HZ9B-2	
D210~212	2760432000	1SS270A	
D213	2760254000	HZ7B-3	
D214~217	2760432000	1SS270A	
D218	2790016001	SFOR1A42	
D219~226	2760432000	1SS270A	
D227	2760049011	1S2076A	
D228	2760465022	HZS7B-3	
D229,230	2760432000	1SS270A	
D231	2760368019	HZ2C-1	
D250	2760432000	1SS270A	
D801,802	2760432000	1SS270A	
LE102,103	3939223010	LD-101DU	
LE104	3939319021	LD-701 YY	
RESISTORS (not included Carbon Film ±5%, 1/4W type)			
AR101	2432044001	RW78A4A1R2K=	1.2ohm ±10% 10W
AR192	2412387908	RD14B2E010JNBST	1ohm ±5% 1/4W
AR805,806	2440025025	RS14B3A470JNBF	47ohm ±5% 1W
CAPACITORS			
C101	2538003014	CK45E2GAC472M	4700pF/400V AC ±20%

WARNING:

Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

Ref. No.	Part No.	Part Name	Remarks
RELAYS & COILS			
L801~804	2359001004	INDUCTOR	(POWER OUT 1μH) 24V, 7A
RL001,002	2140041008	RELAY	
RL003	2140115002	RELAY	
OTHER PARTS			
	4170253000	RADIATOR	Q'ty
	4700012022	Cross Pan Screw with S.W., W	1
	2020022008	3×12	1
	EP-5870	FUSE HOLDER	20
	AF001	FUSE HOLDER	2
	AF003,004	FUSE	1

Ref. No.	Part No.	Part Name	Remarks
AF005~008	2061046014	FUSE 8A	4
AF009~012	2061046027	FUSE 5A	4
	2050075025	2P TERMINAL	SP L.R.
	2050234031	3P EH SID CONN.	1
	2050190036	BASE	2
	2050190049	3P NH CONNECTOR	4
	2050190052	BASE	3
	2050243048	5P NH CONNECTOR	3
	2050243022	BASE	1
	2050190078	7P NH CONNECTOR	1
	2020022008	4P WIRE HOLDER	1
	2020022008	2P WIRE HOLDER	2

ETC9071V (for PX)

[Same as ETC9071E (for U.S.A.) except the followings]

Ref. No.	Part No.	Part Name	Remarks
RESISTOR			
R101	2432044014	RW78A4A2R2K=	2.2ohm 10W C
RELAY			
RL003	2140115002	RELAY	C
OTHER PARTS			
AF001	2061017043	FUSE 12A	C
AF002	2061035038	FUSE 6.3A (T)	A
AF003,004	2061035025	FUSE 1.25A (T) (2)	C
AF005~008	2061052008	FUSE 8A (4)	C
AF009~012	2061035012	FUSE 5A (T) (4)	C
	2020022008	FUSE HOLDER (2)	A

NOTE: A: Add C: Change D: Delete

ETC9071S (for Europe)

[Same as ETC9071E (for U.S.A.) except the followings]

Ref. No.	Part No.	Part Name	Remarks
RESISTOR			
R101	2432044027	RW78A4A4R7K=	4.7ohm 10W C
CAPACITORS			
C803~806	2554228938	CQ92P2A472J (4)	4700pF/100V A ±5% FTZ
	2561043708	CF93B2E224K (2)	0.22μF/250V C FTZ
RELAY			
RL003	2140115002	RELAY	C
OTHER PARTS			
AF001	2020022008	FUSE HOLDER (2)	C
AF002	2061036011	FUSE (6.3A)	C
AF003,004	2061015016	FUSE (1.25A) (2)	C
AF005~008	2061036011	FUSE (6.3A) (4)	C
AF009~012	2061015090	FUSE (5A) (4)	C
	5139151003	DRIVER Vcc	C
	5139151003	FUSE LABEL (2)	T 6.3A A

NOTE: A: Add C: Change D: Delete

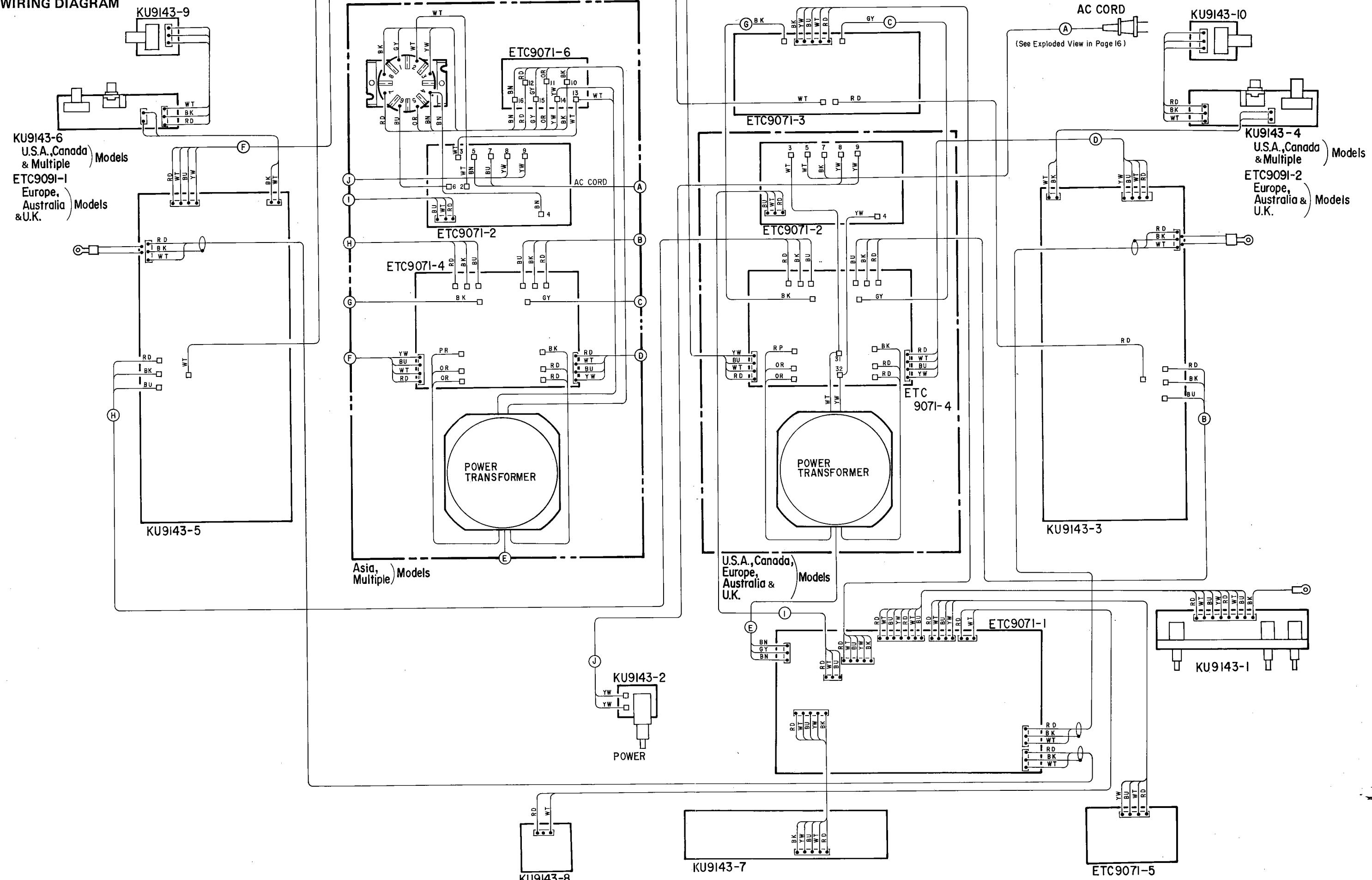
KU-9143S (for Europe)

[Same as KU-9143 (for U.S.A.) except the followings]

Ref. No.	Part No.	Part Name	Remarks
SWITCH			
	2129526008	POWER SW	C
OTHER PARTS			
	4150298001	CONDENSER COVER	A

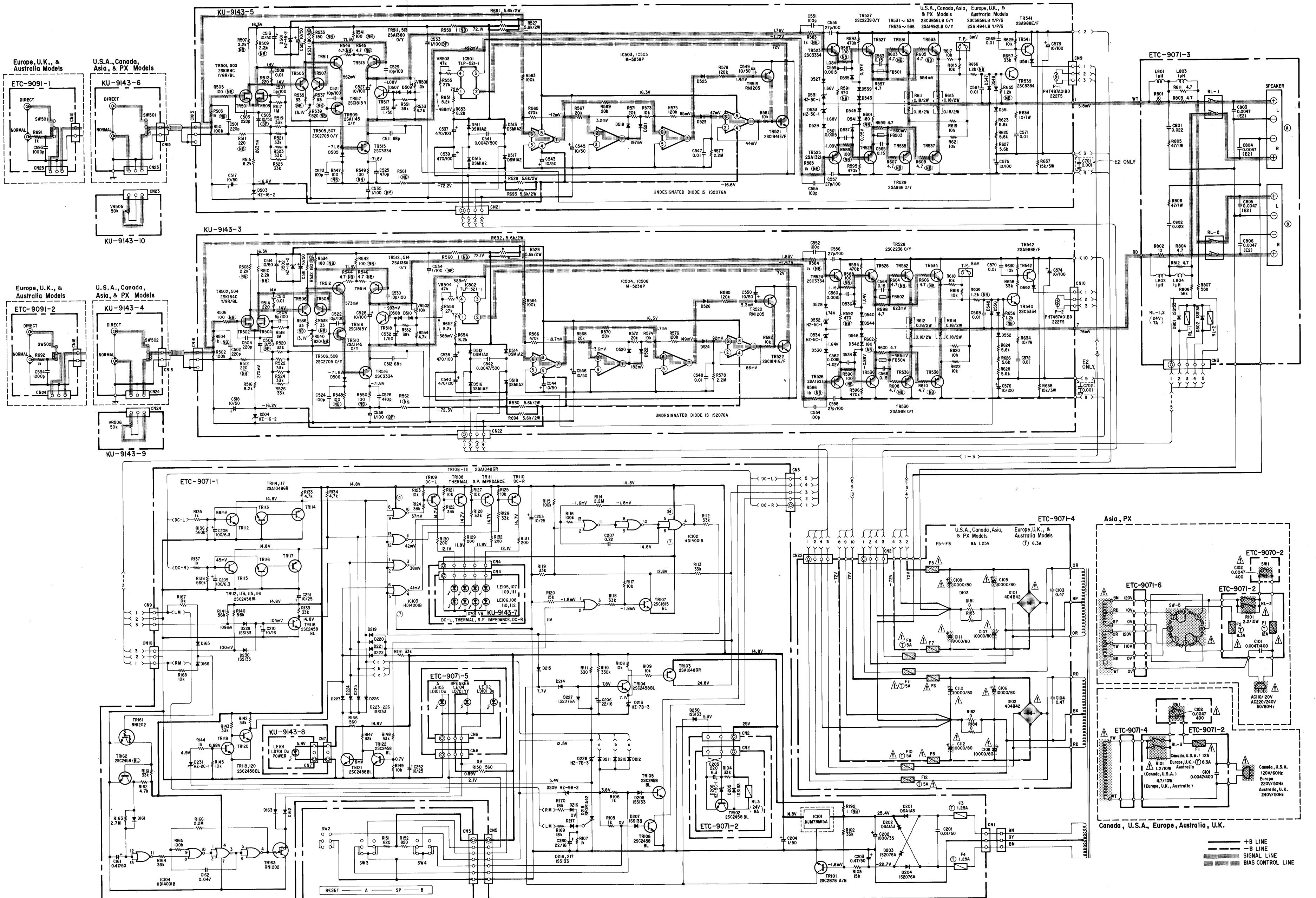
NOTE: A: Add C: Change D: Delete

WIRING DIAGRAM



SCHEMATIC DIAGRAM

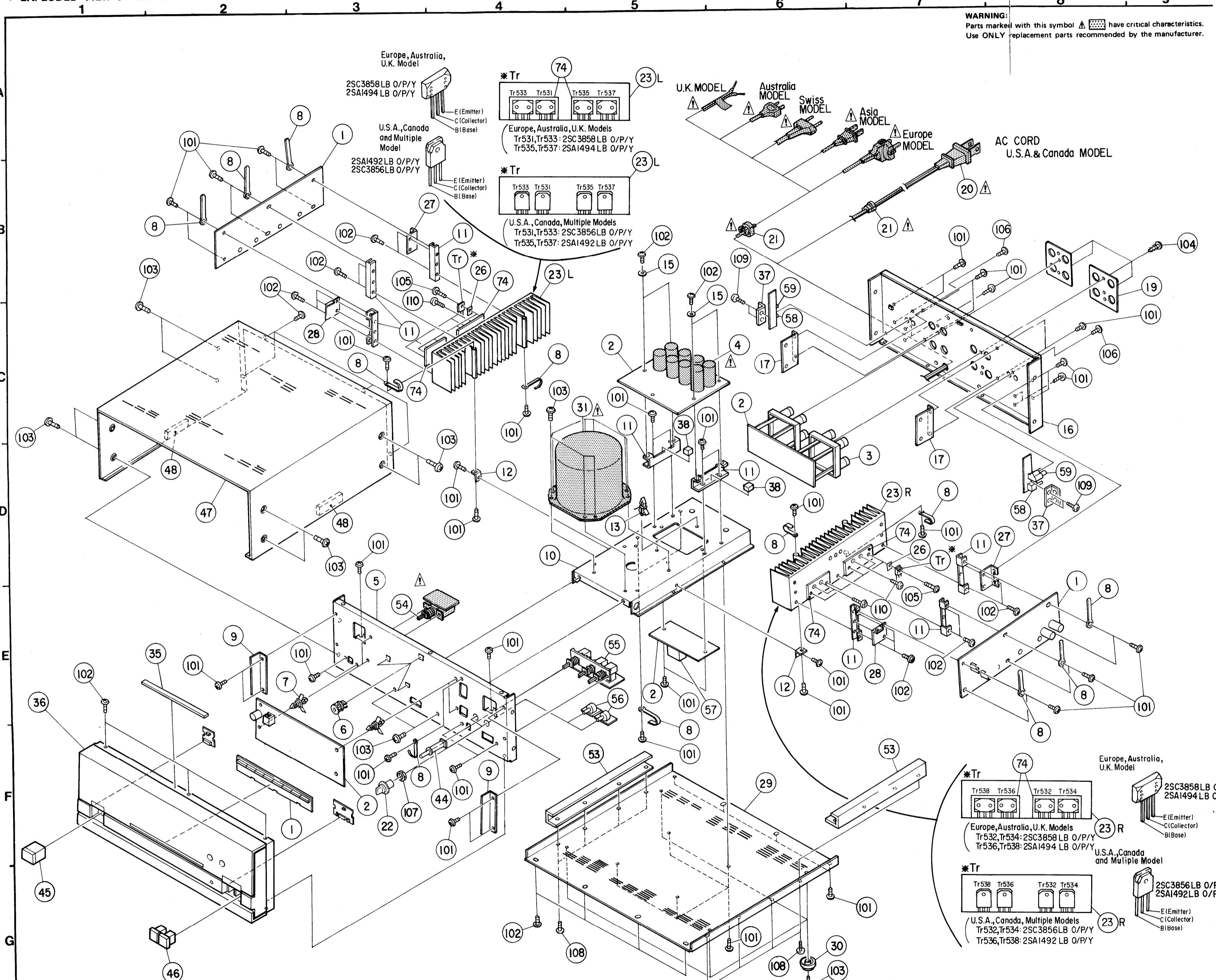
1 2 3 4 5 6 7 8 9 10 11



WARNING:
Parts marked with this symbol have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 millamps, or if the resistance from chassis to either side of the power cord is less than 240 k ohms, the unit is defective.

WARNING: DO NOT return the unit to the customer until the problem is located and corrected.

EXPLODED VIEW OF CHASSIS AND CABINET & PARTS LIST
• EXPLODED VIEW OF CHASSIS AND CABINET


ADDENDUM LIST

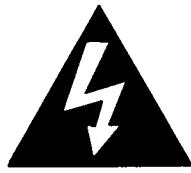
WARNING:

Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

Ref. No.	Part Name & Descriptions	Part No.		
		Multi. voltage	Europe	Swiss
1	POWER UNIT	KU-9143	KU-9143S	KU-9143S
2	SUPPLY UNIT	ETC9071V	ETC9071S	ETC9071S
16	BACK PANEL	1059114124	1059114108	1059114108
▲ 20	AC CORD	2006031026	2062070005 (250V 6A C2)	2062072003 (250V 6A SEV)
▲ 21	CORD BUSH	4450028007	4450020005	4450020005
23	POWER RADIATOR	4179034107(2)	4179042005(2)	4179042005(2)
▲ 31	POWER TRANS	2339558001	2339559000	2339559000
34	WIRE CLAMP BAND	4450033005(10)	4450033005(6)	4450033005(6)
*70	VOLTAGE SEL SW	2129555007	—	—
*71	BRACKET (B)	4129065003	—	—
*72	SAFETY COVER	4149022000	—	—
*73	PUSH RIVET	4770210016(2)	—	—
74	CU PLATE (Europe, Australia & U.K, Models only)	—	4179041006(4)	4179041006(4)
101	TAPPING SCREW (S) 3×6 (BLACK)	4737002034(71)	4737002034(65)	4737002034(65)
105	CUP SCREW (3×12) CUP SCREW (3×14)	4738007009(8)	— 4738007038(16)	— 4738007038(16)
110	CUP SCREW (3×8)	—	4738007025(8)	4738007025(8)
201	DANGEROUS MARK	—	—	—
206	CARTON CASE	5019111147	5019111147	5019111147
207	INST MANUAL	5119244008	5119239000	5119239000
208	DA1 WARRANTY HOME (WARRANTY IN ENVELOPE)	5158052206	—	—
211	PRESET LABEL	5150290008	—	—

Note:

1. See addendum list above for the parts with asterisk (*) on the Ref. No. and the otherparts not included in the list.
2. * marked not included EXPLODED VIEW OF CHASSIS AND CABINET.
3. This list is prepared based on U.S.A BLACK VERSION.
4. Part indicated with the mark "◎" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

NIPPON COLUMBIA CO., LTD.

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